## THE PRODUCTION OF ALUMINUM

In his report entitled "The Production of Aluminum and Bauxite in 1903," Mr. Joseph Struthers, of the United States Geological Survey, expresses regret that it has not been possible to obtain exact statistics of the production of aluminum, for the reason that the sole producer in the United States, the Pittsburg Reduction company, declines to state, of of its nonsusceptibility to atmoseven approximately, its output. This is unfortunate, as a free interchange of ideas on the reduction, refining, and working of the light metal, as well as on the special practices followed in making its various alloys would help to develop this branch of the metal industry, and in consequence would benefit each and every contributor to the general fund of knowledge.

In spite of the secretive policy of the Pittsburg Reduction company, it is safe, however, to estiamte the production of aluminum in the United States during 1903 at 7,500, 000 pounds, as compared with 7,300,000 pounds in 1902, 7,150,000 pounds in 1901. Struthers bases this assumption on the fact that the uses of the metal and its alloys have recently been greatly extended. Bauxite, the crude mineral from which aluminum is extracted, has been consumed during the last few years in successively larger and larger quantities, and this practice, on the strength of a diploma also would seem to indicate that the is apt to find himself in the county production of aluminum is steadily jail. A lawyer is reckoned as an increasing.

The chief point of interest affecting the aluminum industry in the himself as an attorney without being United States during the year 1903 quickly caught up. Moreover, a was the final adjudication of the lawyer who indulges in quack pracmany lawsuits and counter lawsuits tices runs the risk constantly of which have been instituted from being deprived of his privilege. One time to time in behalf of the may have both a knowledge Electric Smelting and Aluminum company, of Cleveland, Ohio, and the Pittsburg Reduction company, of Pittsburg.

Smelting and The Eelectric Aluminum company appparently now controls the electric smelting industry in the United States, as the general authorized authority following companies are more or less supervise the use of the title of minsubsidiary to it: The Cowles Smelting company, the Union Carbide company, the British Aluminum those who pose as members of this company, the Electric Gas company, the Acetylene Illuminating company, the Wilson Aluminum company, and the Acetylene company.

The progress of the aluminum industry in the United States and in cities the authorities require that the Europe in 1903 is described in detail plain engineer, who handles steam by Mr. Struthers. There are only three aluminum works in the United secure a license. Why should not Sates (two at Niagara Falls and one at Massena Springs, New York), and one in Quebec, Canada, one in Scotland, two in France, one in Switzerland, one in Germany, and utable mining engineer can only one in Austria.

A considerable portion of the report is devoted to a discussion of the tenchnology of aluminum. This called engineers who are not entitled metal is used mainly for the transmission of electric currents, in place of copper. A large proportion of the output is manufactured into articles before the public. for domestic and culinary use. Aluminum is used more and more quackery is not to the man with extensively for the construction of whom the quack directly deals, parts of machines and apparatus though the management may be degreat strength; in the manufacture deception which may be practiced of special alloys; as a substitute for upon those who, while not directly stone and zine in lithoraphic work; in touch with the circumstances the bills.

and for the production of intense under which the quack report is in the powder called thermit, which funds or development. No disis the basis of three important branches of metallurgical work.

called ammonal; in the rubber innary wooden patterns; as a substipheric influences. Among the proposed new uses of alumnum is its substitution for glass or earthenand also as a substitute for zine in for storing water.

### **QUACKERY AMONG** MINING ENGINEERS

Laws have been enacted in all states to deal with the quack doctors, and quack lawyers are frequently disbarred from practice in the courts. The individdual that represents himself as a physician when he has not been authorized by the state to officer of the court, and it would be difficult for a man to represent medicine and of law without being practioner, and in either case he may put his knowledge to good use, but misrepresentation as to his personal authority will sooner or later get him into trouble.

At the present time there is no ing engineer and to require evidence of education and experience from profession. Indications are not lacking, however, that the engineer everywhere will soon have to bow to restrictions similar to those imposed upon other professions. In many engines, pass an examination and the same be required of the mining engineer, epecially since financial interests are dependent upon his integrity and ability? The repwelcome such a restriction for him self, for it constitutes a protection to him against the quack; while soto be so considered cannot put forward any objection to the restriction that they would be willing to air

The chief danger from engineering which require lightness rather than ceived by him. It lies rather in

heat by the combustion of the metal | made, nevertheles are furnishing the honesty whatever may be apparent, but at the same time, if the report is Aluminum is also used in the based on ignorance of the subject, manufacture of a special explosive the investor rups the risk of loss. Where dishonesty in this connection dsustry for making lasts and boot is practiced, it of course naturally trees upon which rubber boots and involves not only the so called enshoes are made; in cast-iron foundry gineer, but the management that practice as a substitute for the ordi- employs him, because he is a quack. Only a quack will permit himself to tute for wood in making bubbins for be used as a tool by an unscrupulous spinning and weaving machines promoter, for he will be of no use treating silk fiber; and in powdered to the latter unless he is willing to form for the manufacture of white vouch for falsehoods and to stand metallic paints, a use to which sponsor for all manner of reckless it is particularly swited, on account promotion methods. It may be said in this case that it is the promoter rather than the socalled engineer who deserves the criticism, but this is only an evasion of the issue. The unware in carboys or vessels employed scrupulous promoter will be criticised for the transportation of nitric acid, anyhow, but this power for evil would be greatly bindered if he were not lining cisterns and other receptacles able to stand upon the authority of professional lies. To begin with, the law should make it imposible for the unqualfied to pose as engineers, and those who are proven to be engaging in fraud in the practice of their proession should be held liable to the extent of losing their license to practice.

There is no moral reason why any reputable engineer shold not accept the employment of anyone who has a mine to be examined, but such an engineer will see to it that his reports are properly represented. If his reports are garbled he has grounds for damages before the law, and if he is held up as saying things that he has not uttered be at least owes it to himself to repudiate his connection with it. In the long run his reputation is more to him than the few dollars he might lose by offending his dishonest empolyer. - Daily Mining Record.

Presiding at the Glasgow, Scotland, Charity Organization society's meeting last week, the Duke of Monrose expressed a fear that trade prospects on the Clyde were poor. In London and Manchester most pessi mistic views were taken. His grace deplored the increasing number of foreigners amongst those seeking charity in Glasgow, and denounced the government for permitting pauper alieus to land in Great Britain. Twenty-six per cent of the relief case; were traced to intemperance, in temperance might be lessened by legislation and better housing, he said, but the best remedy is the incarceration of drunkards, who are a drain on the charity of every large city. If they overcome intemperance, they will do away with one-fourth of the charity societies. These statistics may be correct, so far as Glasgow is concerned, and if they are, this appalling percentage of intemperance breaks the world's record, and is due to conditions that surely must be the accumulated evil result of genera tions. His highness' remedy, legislation, is that of a quack. The cause must be removed, which legislation cannot do.

In the village of Altenberg, on whose borders three countries meet, there are no soldiers, no police, no taxes, and its people are ruled by no monarch. The inhabitants speak a queer jargon of French and German combined, and spend their time cultivating the land or working the valuable calamine mine, which is the boast of the village.

Ira Isaacs is in town today from

Wants 'Em

You'll Have to Hurry or You Will Be Too Late

Three lots, 140 feet front, 175 feet deep, two houses, sheds, stable, fine well and city water, all surfaced for lawn, situated in finest residence section of the city. Take 'em for

Can't be dupitcated for \$1500. Also three good dwelling houses that will have to be moved. Make an offer.

J. H. BROWN

# WHY PAY

**HOUSE RENT?** 

The best rooming and boarding house in city of Sumpter for sale on the installment plan. " See Bernard Flynn.

Office Phone No. 361

Residence Phone No. 71

DR. L. T. BROCK Physician and Surgeon Sumpter, Oregon.

I am now prepared to receive and treat patients, both medical and surgical, in the best equipped private sanitarium in the country. Nice quiet home, with trained and experienced nurse always in atendance. Up-to-date surgical work a specialty

CHAS. H. CHANCE AT ORNEY AT LAW U. S. Commissioner

Rooms 2 and 3, First National Bank of Sumpter Building,

SUMPTER. · OREGON

DR. PEARCE & ANDERSON

Physicians and Surgeons

PROPRIETORS SUMPTER GENERAL HOSPITAL

SUMPTER, ORSGOP. Telephone | OFFICE, Main 181.

Timber and Homestead Filings.

Timber and homestead filings, as well as final proofs, can be made before Charles H. Chance, United States Commissioner, office in First National Bank of Sumpter building, Sumpter, thus saving applicants expense of a trip to La